COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for applying heat spreaders to a plurality of plasma display panels, comprising (a) providing a plurality of heat spreader composites, each of which comprises a heat spreader material comprising at least one sheet of compressed particles of exfoliated graphite, the heat spreader composites each having an adhesive thereon and a release material positioned such that the adhesive is sandwiched between the heat spreader material and the release material, and wherein the adhesive achieves a minimum lap shear adhesion strength of at least about 125 grams per square centimeter ~~adhesive and release material provide an average release load of no greater than about 40 grams per centimeter at a release speed of one meter per second~~; (b) removing the release material from a plurality of the composites; and (c) applying at least one of the composites to each of the plurality of plasma display panels each such that the adhesive adheres the heat spreader material to the plasma display panel such that the heat spreader material is maintained in position when the panel assumes a variety of orientations.

2. (original) The method of claim 1 wherein the release material and adhesive are selected to permit a predetermined rate of release of the release material without causing undesirable damage to the heat spreader material.

3. (canceled)

4. (previously presented) The method of claim 1 wherein the average release load is no greater than about 10 grams per centimeter at a release speed of one meter per second.

5. (canceled)

6. (currently amended) The method of claim ~~5~~ 1 wherein the adhesive achieves an average lap shear adhesion strength of at least about 700 grams per square centimeter.

7. (previously presented) The method of claim 1 wherein the adhesive results in an increase in through thickness thermal resistance of the adhesive/heat spreader material of not more than about 35% as compared to the heat spreader material itself.

8. (original) The method of claim 7 wherein the thickness of the adhesive is no greater than about 0.5 mils.

9. (original) The method of claim 8 wherein the thickness of the adhesive is no greater than about 0.25 mils.

10. (canceled)

11. (canceled)

12. (previously presented) The method of claim 1 wherein the heat spreader material comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.

13. (withdrawn) A heat spreader adaptable for high volume manufacturing of a heat source, comprising a heat spreader composite, which comprises a heat spreader material having an adhesive thereon and a release material positioned such that the adhesive is sandwiched between the heat spreader material and the release material, wherein the release material and adhesive are selected to permit a predetermined rate of release of the release material without causing undesirable damage to the heat spreader material.

14. (withdrawn) The heat spreader of claim 13 wherein the adhesive and release material provide an average release load of no greater than about 40 grams per centimeter at a release speed of one meter per second.

15. (withdrawn) The heat spreader of claim 14 wherein the average release load is no greater than about 10 grams per centimeter at a release speed of one meter per second.

16. (withdrawn) The heat spreader of claim 14 wherein the adhesive achieves a minimum lap shear adhesion strength of at least about 125 grams per square centimeter.

17. (withdrawn) The heat spreader or claim 16 wherein the adhesive achieves an average lap shear adhesion strength of at least about 700 grams per square centimeter.

18. (withdrawn) The heat spreader of claim 16 wherein the adhesive results in an increase in through thickness thermal resistance of the adhesive/heat spreader material of not more than about 35% as compared to the heat spreader material itself.

19. (withdrawn) The heat spreader of claim 18 wherein the thickness of the adhesive is no greater than about 0.5 mils.

20. (withdrawn) The heat spreader of claim 20 wherein the thickness of the adhesive is no greater than about 0.25 mils.

21. (withdrawn) The heat spreader of claim 13 wherein the heat spreader material comprises graphite.

22. (withdrawn) The heat spreader of claim 21 wherein the heat spreader material comprises at least one sheet of compressed particles of exfoliated graphite.

23. (withdrawn) The heat spreader of claim 22 wherein the heat spreader material comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.

24. (currently amended) A method for applying a heat spreader to a heat source, comprising (a) providing a heat spreader composite having two major surfaces and a thickness between the major surfaces, which comprises a heat spreader material comprising at least one sheet of compressed particles of exfoliated graphite, each heat spreader composite having an adhesive thereon and a release material positioned such that the adhesive is sandwiched between the heat spreader material and the release material, wherein the adhesive achieves a minimum lap shear adhesion strength of at least about 125 grams per square centimeter ~~wherein the presence of the adhesive does not result in an increase in~~

~~the through-thickness thermal resistance of more than 100%, as compared to the through-thickness thermal resistance of the heat spreader material without the adhesive~~; (b) removing the release material from the composite; and (c) applying the composite to a heat source such that the adhesive adheres the heat spreader material to the heat source~~,~~ such that the heat spreader material is maintained in position when the heat source assumes a variety of orientations ~~wherein the release material and adhesive are selected to permit a predetermined rate of release of the release material without causing undesirable damage to the heat spreader material~~.

25. (original) The method of claim 24 wherein the adhesive and release material provide an average release load of no greater than about 40 grams per centimeter at a release speed of one meter per second.

26. (original) The method of claim 25 wherein the average release load is no greater than about 10 grams per centimeter at a release speed of one meter per second.

27. (canceled)

28. (currently amended) The method of claim ~~27~~ 24 wherein the adhesive achieves an average lap shear adhesion strength of at least about 700 grams per square centimeter.

29. (currently amended) The method of claim ~~27~~ 24 wherein the adhesive results in an increase in through thickness thermal resistance of the adhesive/heat spreader material of not more than about 35% as compared to the heat spreader material itself.

30. (original) The method of claim 29 wherein the thickness of the adhesive is no greater than about 0.5 mils.

31. (original) The method of claim 30 wherein the thickness of the adhesive is not greater than about 0.25 mils.

32. (canceled)

33. (canceled)

34. (previously presented) The method of claim 24 wherein the heat spreader material comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.

35. (newly added) The method of claim 1, wherein the heat spreader material is at least about 270 millimeters by about 500 millimeters in area.

36. (newly added) The method of claim 1, wherein the plasma display panel has an area of at least about 1 meter, measured form corner to corner.

37. (newly added) The method of claim 24, wherein the heat spreader material is at least about 270 millimeters by about 500 millimeters in area